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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/698,278		10/30/2000	Daniel R. Leger	H0001242	4387
128	7590	12/23/2003	EXAMINER		INER
		ERNATIONAL IN	TRAN, DALENA		
101 COLUN P O BOX 22		AD	ART UNIT	PAPER NUMBER	
MORRISTO	WN, NJ	07962-2245	3661		

DATE MAILED: 12/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			1					
		Application No.	Applican(s)					
	4	09/698,278	LEGER ET AL.					
•	Office Action Summary	Examiner	Art Unit					
		Dalena Tran	3661					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	Responsive to communication(s) filed on 01 C	October 2003.						
2a)⊠	This action is FINAL . 2b) This	action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
	Claim(s) <u>1-39</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
·	Claim(s) <u>1-39</u> is/are rejected.							
·	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
9) The specification is objected to by the Examiner.								
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachmen		4) 🗖 المام ا	(DTO 442) Depart No/ol					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)					



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PATENT IN REEXAMINATION

ATTORNEY DOCKET NO.
PATENT IN REEXAMINATION

EXAMINER

ART UNIT PAPER

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DATE MAILED:

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Commissioner for Patents

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DETAILED ACTION

Notice to Applicant(s)

1. This office action is responsive to the amendment filed on 10/1/03. Claims 1-39 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3,5, and 8, are rejected under Musland-Sipper (6,313,759), in view of Simpson et al. (5,999,882).

As per claim 1, Musland-Sipper discloses an apparatus for providing weather information onboard an aircraft, comprising: a processor unit which processes weather information after it is received onboard the aircraft from a ground-based source (see the abstract; and columns 1-2, lines 55-14), and a graphical user interface which provides a graphical presentation of the weather information to a user onboard the aircraft, and which includes a user-selectable option that allows the user to request specific weather information for transmission from the ground-based source to the aircraft (see columns 2-4, lines 61-55). Musland-Sipper does not disclose plurality of types of weather information. However, Simpson et al. disclose ground-based source containing a plurality of types of weather information (see columns 5-6, lines 49-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Musland-Sipper by combining a plurality of types of weather information to

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provide to the pilot variety of weather selection information to be display depending on each situation in each geographic area.

As per claim 3, Musland-Sipper discloses the graphical user interface includes a user-selectable option that allows the user to select what weather information is automatically transmitted from the ground-based source (see columns 2-4, lines 61-55).

As per claim 5, Musland-Sipper does not disclose multiple types of weather data. However, Simpson et al. disclose the graphical user interface allows the user to view multiple types of weather data simultaneously (see columns 5-6, lines 49-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Musland-Sipper by combining the graphical user interface allows the user to view multiple types of weather data simultaneously to provide the user a full range of weather information along a travel route in real time, therefore, the user can take an appropriate action to detour to another route safely and timely.

As per claim 8, Musland-Sipper discloses a processor unit which processes weather information, after it is received onboard the aircraft from a ground-based source (see the abstract; and columns 2-3, lines 61-13), and a graphical user interface includes a user-selectable option that allows the user to request specific weather information for transmission from the ground-based source to the aircraft (see columns 2-4, lines 61-55). Musland-Sipper does not disclose three-dimensional weather information. However, Simpson et al. disclose weather information including three-dimensional weather information (see columns 1-2, lines 29-17; columns 3-4, lines 20-30; and column 11, lines 10-42). Musland-Sipper also does not disclose a plan view of the weather information for a selected altitude. However, Simpson et al. disclose provides a plan

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view of the weather information for a selected altitude to a user onboard the aircraft, and which includes a user-selectable option for changing the selected altitude (see columns 10-11, lines 65-42). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Musland-Sipper by combining weather information including three-dimensional weather information, and a plan view of the weather information for a selected altitude to a user onboard the aircraft, for visualizations forecasted or observed the weather along the travel route in different altitude.

4. Claim 4, is rejected under Musland-Sipper (6,313,759), and Simpson et al. (5,999,882) as applied to claim 1 above, and further in view of Tu (6,014,606).

As per claim 4, Musland-Sipper does not disclose weather information in cross-sectional view. However, Tu discloses the graphical user interface includes a user-selectable option for displaying the weather information in cross-sectional view along a route of the aircraft (see columns 5-6, lines 52-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Musland-Sipper by combining displaying the weather information in cross-sectional view along a route of the aircraft to generate a full range of weather information along the travel route or for the selected location.

5. Claim 2, is rejected under Musland-Sipper (6,313,759), and Simpson et al. (5,999,882) as applied to claim 1 above, and further in view of Bateman et al. (6,043,756).

As per claim 2, Simpson et al. disclose user-selectable option for graphically displaying at least one of weather satellite information, SIGMET information, and winds aloft information (see columns 5-6, lines 49-67; and columns 10-12, lines 27-8). Musland-Sipper, and Simpson

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et al. do not disclose convection, turbulence, and icing information. However, Bateman et al. disclose convection, turbulence, and icing information (see columns 2-3, lines 11-41). It is obvious that there can be different kind of weather information can be stored in the database and display for the user.

6. Claims 6-7, are rejected under Musland-Sipper (6,313,759), in view of Ray et al. (5,757,322).

As per claim 6, Musland-Sipper discloses a processor unit which processes weather information after it is received onboard the aircraft from a ground-based source (see the abstract; and columns 1-2, lines 55-14), and the graphical user interface includes a user-selectable option that allows the user to request specific weather information for transmission from the groundbased source to the aircraft (see columns 2-4, lines 61-55). Musland-Sipper does not disclose a plan view or the weather information and position of the aircraft to a user onboard the aircraft. However, Ray et al. disclose a plan view of the weather information and position of the aircraft to a user onboard the aircraft, and which includes a user-selectable option for centering the plan view on the position of the aircraft, even as the position of the aircraft changes (see column 4, lines 19-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Musland-Sipper by combining a plan view of the weather information and position of the aircraft to a user onboard the aircraft, and which includes a user-selectable option for centering the plan view on the position of the aircraft, even as the position of the aircraft changes for assisting the pilot to visualize a location of weather information associated with travel route, therefore the pilot can plan an alternate route in case of bad weather in the region where he / she in at the moment.

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Also as per claim 7, Ray et al. disclose the graphical user interface includes a user-selectable option for orienting the plan view so the aircraft track points upward (see column 4, lines 19-40).

7. Claims 9-39, are rejected under Ray et al. (5,757,322), in view of Simpson et al. (5,999,882), and Bateman et al. (6,043,756).

As per claims 9,14,19,24,28,32, and 35, Ray et al. disclose collecting weather information at a centralized data center (see columns 1-2, lines 65-21; and column 3, lines 11-16), providing a specific request from the aircraft for the weather information, and transmitting the weather information from the data center to an aircraft in response to the request (see columns 3-4, lines 30-68), graphically displaying the weather information onboard the aircraft (see columns 5-6, lines 23-4), and weather information includes SIGMET information (see columns 5-6, lines 52-4). Ray et al. do not disclose weather satellite information, and wind aloft information. However, Simpson et al. disclose weather information can includes weather satellite information, SIGMET information, and wind aloft information (see columns 5-6, lines 49-20). Also, Bateman et al. disclose convection information, turbulence information, and icing information (see columns 2-3, lines 11-41). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Ray et al. by combining display many different kinds of weather information to make available convenient displaying current global geographic specific weather conditions and allows pilots to avoid adverse weather along the flight route.

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As per claim 31, Bateman et al. also disclose the SIGMET information is graphically displayed in the form of geometric shapes representing areas affected by SIGMETs (see columns 3-4, lines 31-10).

As per claims 10-11, 15-16,20-21, and 36-37, Ray et al. do not disclose information regarding weather activity observation and forecasts. However, Simpson et al. disclose weather information that is graphically displayed onboard the aircraft includes information regarding weather activity observation and forecasts (see columns 5-6, lines 11-67; and columns 7-8, lines 33-67). Also, Bateman et al. disclose convection information (see columns 2-4, lines 66-9). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Ray et al. by combining the weather information that is graphically displayed onboard the aircraft includes information regarding observation and forecasts, and weather information can be different kind of weather for providing a user of selecting in viewing information over whole range of geographic area along the flight path.

As per claims 12-13, 17-18,22-23,26-27,29-30,33-34, and 38-39, Ray et al. disclose the weather information is transmitted from the data center to the aircraft via a telephony, and satellite communication link (see columns 3-4, lines 31-67).

As per claim 25, Ray et al. do not disclose the weather satellite information is altitude based. However, Simpson et al. disclose the weather satellite information that is graphically displayed onboard the aircraft is altitude based (see columns 10-11, lines 65-42). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Ray et al. by combining the weather satellite information that is graphically displayed

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onboard the aircraft is altitude based for accurately provide a user exactly weather information depend on the position of the aircraft.

Remarks

- 8. Applicant's argument filed on 10/1/03 have been fully considered but they are not deemed to be persuasive.
- 8. Applicant's argument on pages 3-4 of the amendment that, Musland-Sipper ('759) reference allows the operator to request for a 'weather deviation', and does not teach requesting specific weather information. However, ('759) disclose in column 4, lines 16-34, and figure 7, button 1L through 4L are all the different user-selectable option that allows the user to input specific request weather information for transmission from the ground based; request for "weather deviation" is only one of those button (button 2L, column 4, lines 24-25), other requests or reports also be included in this menu (column 4, lines 33-34). Therefore, it is obvious that the user-selectable option in ('759) allows the user to request specific request weather information for transmission from the ground based source to the aircraft.

Applicant's argument on pages 5-6 of the amendment that Ray et al. do not capable of providing a specific request from the aircraft for the weather information. However, Ray et al. disclose that in column 5, lines 60-63; column 2, lines 7-12.

Examiner maintains that all the references cited meet the language of the claims invention. Therefore, the rejection under 35 U.S.C.103(a) are considered to be proper.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136 (a).

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A shorten statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTHS shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136 (a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 703-308-8223. The examiner can normally be reached on M-F (7:30 AM-5:30 PM), off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski can be reached on 703-308-3873. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

TAN Q. NGUYEN